

Prüfbericht-Nr.: Test report no.:	CN22XLNH 002	Auftrags-Nr.: Order no.:	168368681	Seite 1 von 21 Page 1 of 21
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2022-04-21	
Auftraggeber: Client:	SZ DJI Osmo Technology Co., Ltd. 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui Road North, Guangming Street, Guangming District, Shenzhen, P. R. China			
Prüfgegenstand: Test item:	DJI RS 3 Mini			
Bezeichnung / Typ-Nr.: Identification / Type no.:	P20M			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR 47 FCC Part 15, Subpart C, Section 15.247			
Wareneingangsdatum: Date of sample receipt:	2022-08-15	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no:	A003317804-032 A003317804-006, 011			
Prüfzeitraum: Testing period:	2022-08-18 to 2022-08-23			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	Hardy Suo		genehmigt von: authorized by:	Lin Lin
Datum: Date:	2022-09-22		Ausstellungsdatum: Issue date:	2022-09-22
Stellung / Position:	Sachverständige(r) / Expert		Stellung / Position:	Sachverständige(r) / Expert
Sonstiges / Other:	FCC ID: 2ANDR-P20M2022			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet				
5 = poor N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth LE & Conducted Emission.

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Registration No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2022-09-28
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2022-09-28
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2022-09-28
DC power supply	Keysight	E3642A	MY61276100	2022-09-28
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2022-09-28
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2022-09-28
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2023-08-02
Signal Analyzer	R&S	FSV 40	101439	2023-08-01
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2023-08-01
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2023-08-02
Amplifier	R&S	SCU-18F	180070	2023-08-02
Amplifier	R&S	SCU40A	100475	2023-08-02
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2023-08-06

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Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2023-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2023-08-08
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2023-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2023-02-27
Artificial Mains Network	R&S	ENV216	101445	2023-02-27
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	± 2.08 %
RF output power, conducted	± 0.99 dB
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a DJI RS 3 Mini. It supports Bluetooth Low Energy wireless technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	DJI RS 3 Mini
Type Designation:	P20M
FCC ID:	2ANDR-P20M2022
Operating Voltage:	USB Port 5Vdc/2A or Battery operated (7.2Vdc, 2450mAh)
Operating Temperature Range:	-10°C ~ 45 °C
Radiofrequency operating mode:	Bluetooth: operating within 2400-2483.5MHz, Bluetooth BLE, 1Mbps&2Mbps
Technical Specification of Bluetooth LE	
Frequency Range:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Data Rate:	1 Mbps, 2 Mbps
Channel Separation:	2 MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0 dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth LE transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Normal Operation
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- ID Label and Location Info

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

Table 3: Test environments

Environment Parameter	Values During Tests		
	Temperature	Voltage (Battery operated)	Relative Humidity
NTNV	25°C±2°C	7.2Vdc	Ambient

Table 4: Test channel and frequency

Mode	Test Channels (MHz)	Remark
Transmitting	L/M/H: 2402MHz, 2440MHz, 2480MHz	--

4.3 Special Accessories and Auxiliary Equipment

Table 5: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	N/A
Mobile phone	HUAWEI	STK-AL00	7PRNW2072100 0279	N/A
Camera	Canon	EOS M6 Mark II	N/A	N/A
Power Adapter	DJI	QC24-CN	N/A	Input: 100-240V, 50/60Hz, 0.8A Max Output: DC 3.6-8V, 3A or DC 12V, 2A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

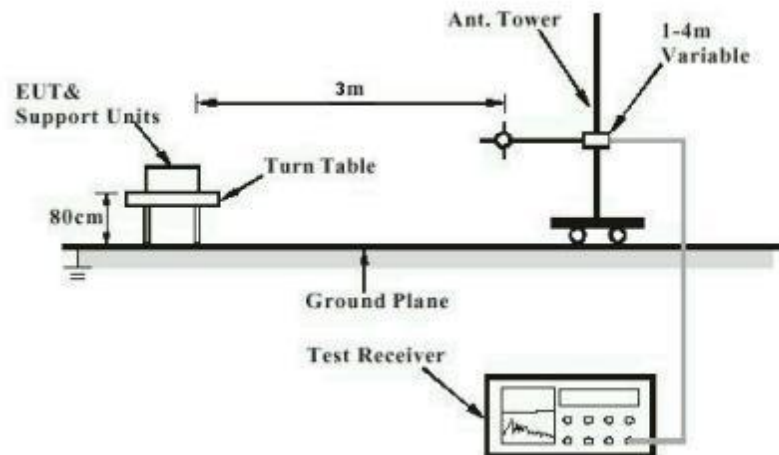


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

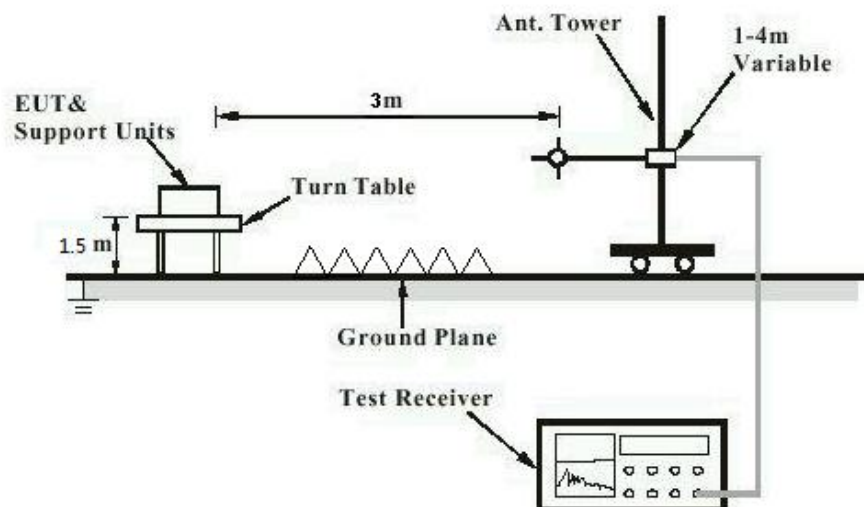


Diagram of Measurement Configuration for Mains Conduction Measurement

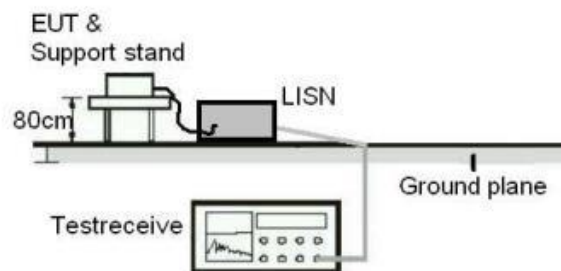
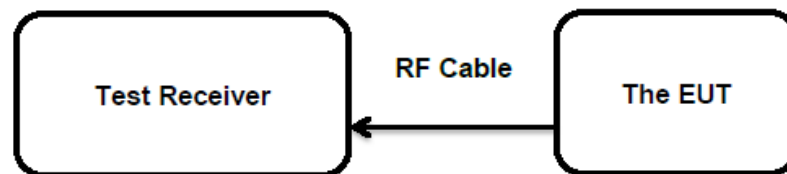


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has one Integral antenna, the gain of antenna is 0dBi, which that permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)
 Basic standard : ANSI C63.10: 2013
 Limits : 1.0 Watts
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-08-18
 Input voltage : Battery operated
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 26.2 °C
 Relative humidity : 43 %
 Atmospheric pressure : 101 kPa

Table 6: Test Result of Maximum Peak Conducted Output Power

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
Bluetooth (Low Energy)	1 Mbps	2402	0.72	0.0012	< 1.0
		2440	0.95	0.0012	
		2480	0.98	0.0013	
	2 Mbps	2402	0.87	0.0012	
		2440	0.94	0.0012	
		2480	0.96	0.0012	
Maximum Measured Value			0.98	0.0013	

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 0dBi

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(e)
Basic standard	: ANSI C63.10: 2013
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-08-18
Input voltage	: Battery operated
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.2 °C
Relative humidity	: 43 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(2)
Basic standard	: ANSI C63.10: 2013
Limits	: > 500 KHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-08-18
Input voltage	: Battery operated
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.2 °C
Relative humidity	: 43 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-08-18
Input voltage	: Battery operated
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.2 °C
Relative humidity	: 43 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d)
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-08-18
Input voltage	: Battery operated
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.2 °C
Relative humidity	: 43 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A.

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5.1.7 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) & FCC Part 15.205
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2022-08-22
Input voltage	: Battery operated
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

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5.1.8 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-08-23
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 23.7 °C
Relative humidity	: 52.4 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A: Test Results of Bluetooth LE & Conducted Emission

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Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.84	≤8.00	PASS
		2440	-10.89	≤8.00	PASS
		2480	-11.33	≤8.00	PASS
BLE_2M	Ant1	2402	-11.09	≤8.00	PASS
		2440	-11.36	≤8.00	PASS
		2480	-11.28	≤8.00	PASS

BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.684	2402.356	0.5	PASS
		2440	0.664	2439.684	2440.348	0.5	PASS
		2480	0.656	2479.676	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.012	2401.500	2402.512	0.5	PASS
		2440	1.004	2439.480	2440.484	0.5	PASS
		2480	1.016	2479.492	2480.508	0.5	PASS

BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0631	2401.4758	2402.5389	---	PASS
		2440	1.0555	2439.4817	2440.5372	---	PASS
		2480	1.0726	2479.4714	2480.5440	---	PASS
BLE_2M	Ant1	2402	2.0689	2400.9825	2403.0514	---	PASS
		2440	2.0655	2438.9914	2441.0569	---	PASS
		2480	2.0698	2478.9837	2481.0535	---	PASS

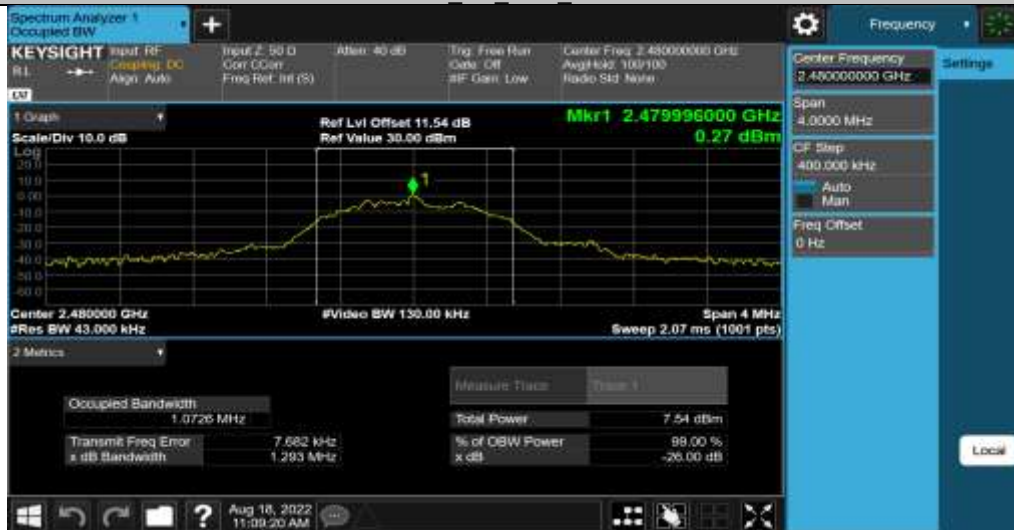
BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-48.06	≤-19.87	PASS
			1000~26500	0.13	-26.01	≤-19.87	PASS
		2440	Reference	0.65	0.65	---	PASS
			30~1000	0.65	-48.5	≤-19.35	PASS
			1000~26500	0.65	-26.13	≤-19.35	PASS
		2480	Reference	0.48	0.48	---	PASS
			30~1000	0.48	-48.32	≤-19.52	PASS
			1000~26500	0.48	-26.05	≤-19.52	PASS
BLE_2M	Ant1	2402	Reference	0.52	0.52	---	PASS
			30~1000	0.52	-48.57	≤-19.48	PASS
			1000~26500	0.52	-26.05	≤-19.48	PASS
		2440	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-48.18	≤-19.36	PASS
			1000~26500	0.64	-25.98	≤-19.36	PASS
		2480	Reference	-2.46	-2.46	---	PASS
			30~1000	-2.46	-47.73	≤-22.46	PASS
			1000~26500	-2.46	-26.13	≤-22.46	PASS

BLE 1M Ant1 2402 0-Reference



BLE 1M Ant1 2402 30-1000



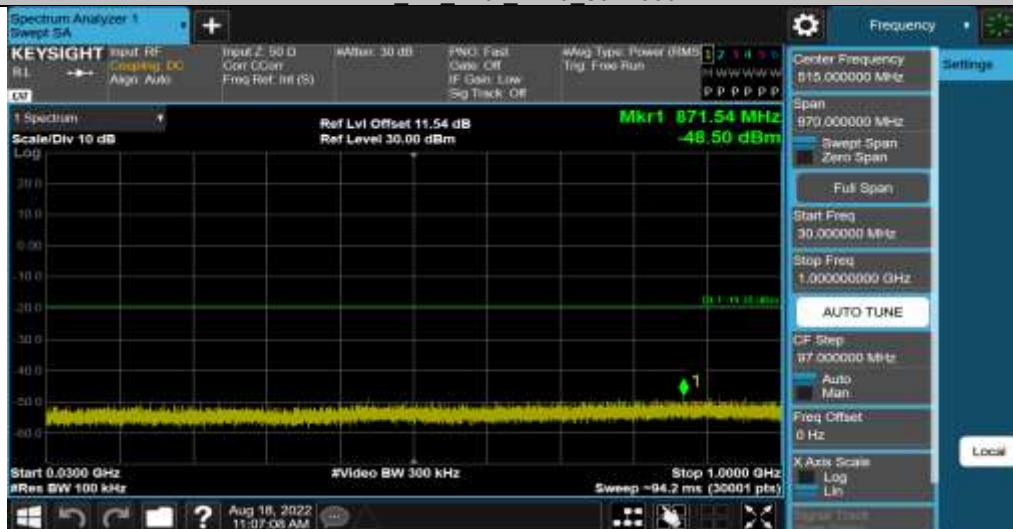
BLE 1M Ant1 2402 1000-26500



BLE 1M Ant1 2440 0-Reference



BLE 1M Ant1 2440 30-1000



BLE 1M Ant1 2440 1000-26500



BLE 1M Ant1 2480 0-Reference



BLE 1M Ant1 2480 30-1000



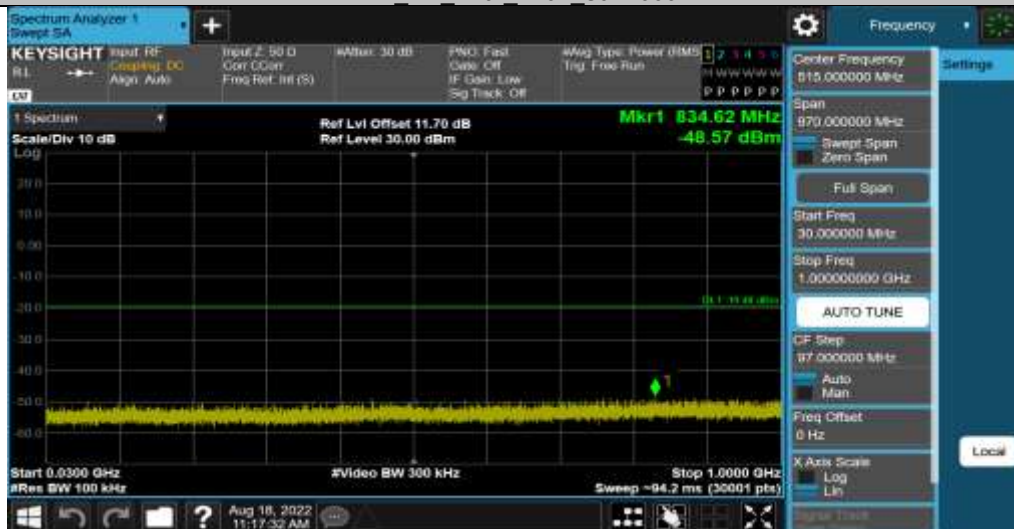
BLE 1M Ant1 2480 1000-26500



BLE 2M Ant1 2402 0-Reference



BLE 2M Ant1 2402 30-1000



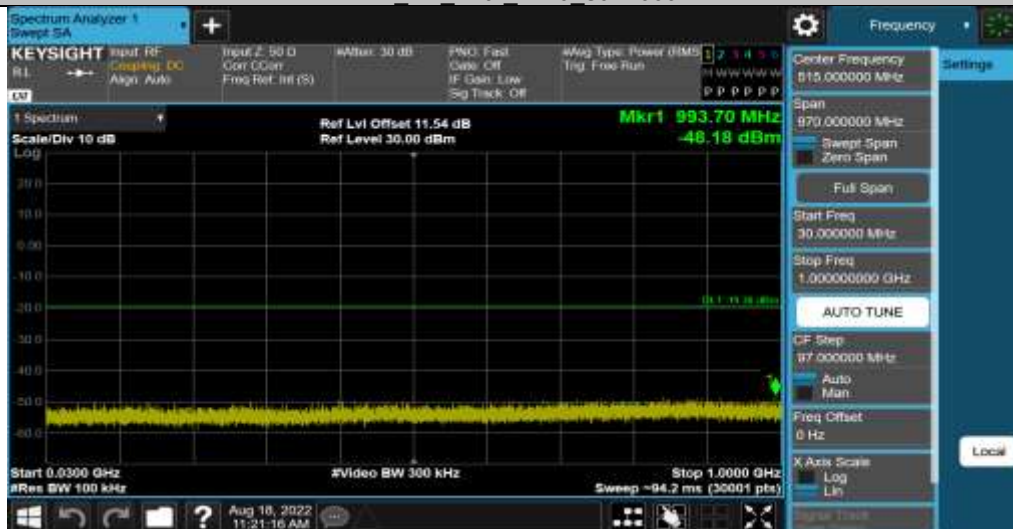
BLE 2M Ant1 2402 1000-26500



BLE 2M Ant1 2440 0-Reference



BLE 2M Ant1 2440 30-1000



BLE 2M Ant1 2440 1000-26500



BLE 2M Ant1 2480 0-Reference



BLE 2M Ant1 2480 30-1000



BLE 2M Ant1 2480 1000-26500



Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.70	-25.78	≤-19.3	PASS
		High	2480	0.60	-42.39	≤-19.4	PASS
BLE_2M	Ant1	Low	2402	0.55	-25.73	≤-19.45	PASS
		High	2480	0.64	-41.84	≤-19.36	PASS

BLE 1M Ant1 Low 2402



BLE 1M Ant1 High 2480



BLE 2M Ant1 Low 2402



BLE 2M Ant1 High 2480



Appendix A.5: Test Results of Radiated Spurious Emissions

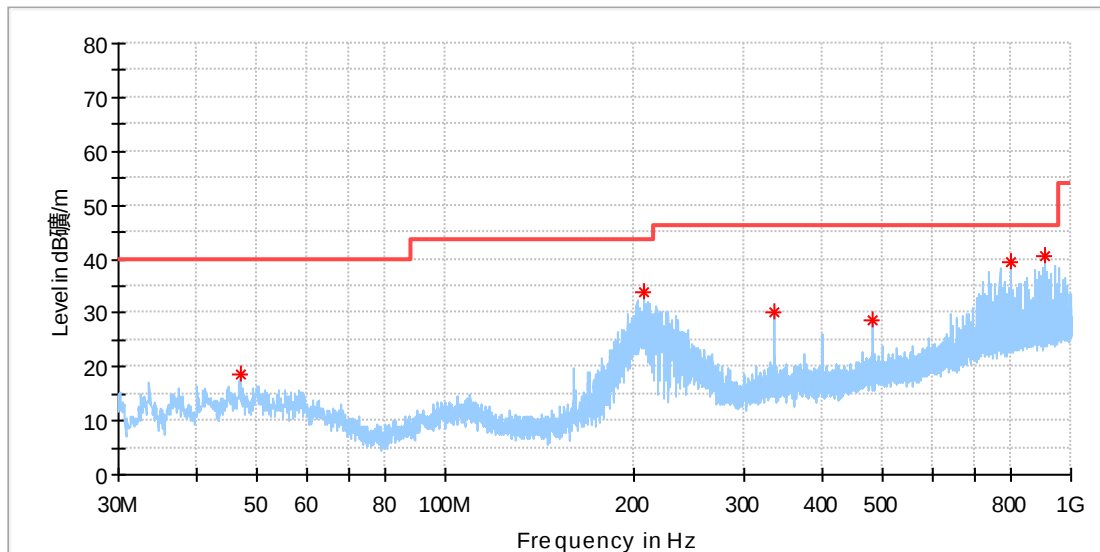
Note:

- 1) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	DJI RS 3 Mini
Model:	P20M
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168368681/A003317804-032
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

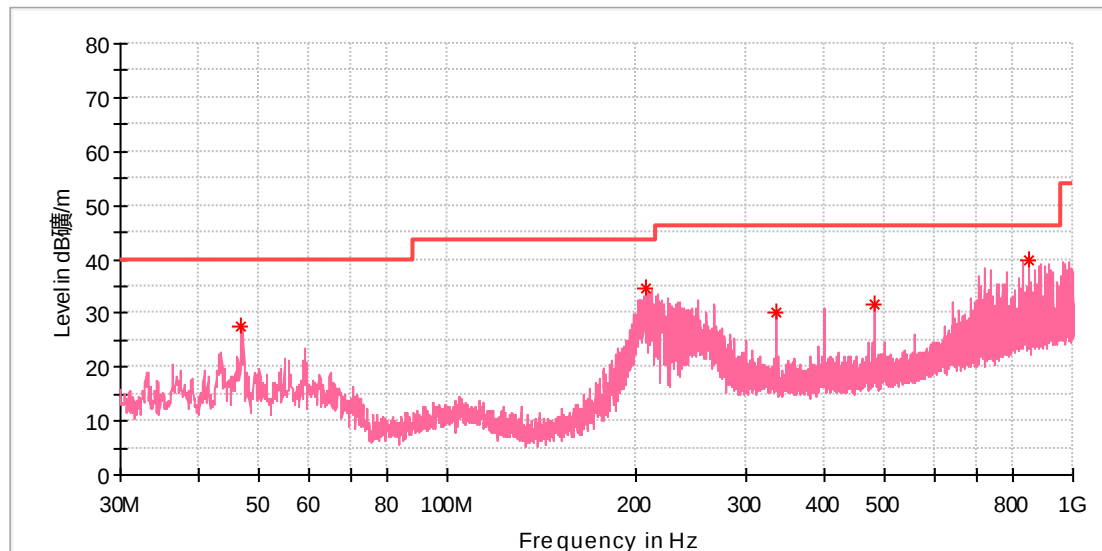
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.975000	18.68	40.00	21.32	100.0	H	45.0	-18.5
207.461500	33.92	43.50	9.58	100.0	H	359.0	-18.9
335.695500	30.08	46.00	15.92	100.0	H	190.0	-15.2
480.031500	28.66	46.00	17.34	100.0	H	359.0	-12.2
801.926000	39.33	46.00	6.67	100.0	H	202.0	-6.3
907.219500	40.50	46.00	5.50	100.0	H	202.0	-4.9

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.829500	27.61	40.00	12.39	100.0	V	210.0	-18.5
208.140500	34.42	43.50	9.08	100.0	V	277.0	-18.9
335.744000	30.24	46.00	15.76	100.0	V	0.0	-15.2
480.031500	31.72	46.00	14.28	100.0	V	181.0	-12.2
850.523000	39.75	46.00	6.25	100.0	V	0.0	-5.5

Final_Result

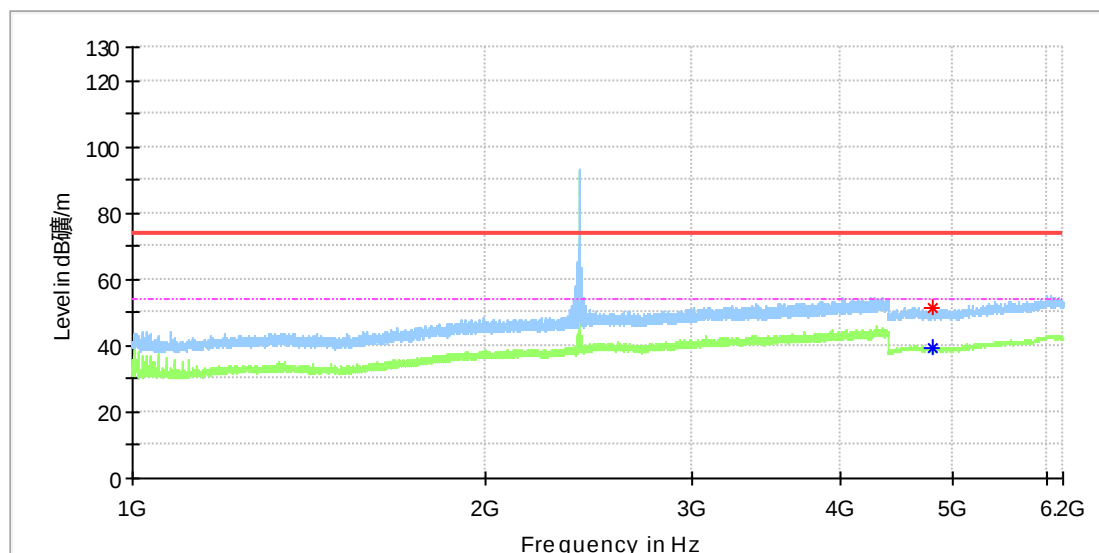
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz-18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	DJI RS 3 Mini
Model:	P20M
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168368681/A003317804-032
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

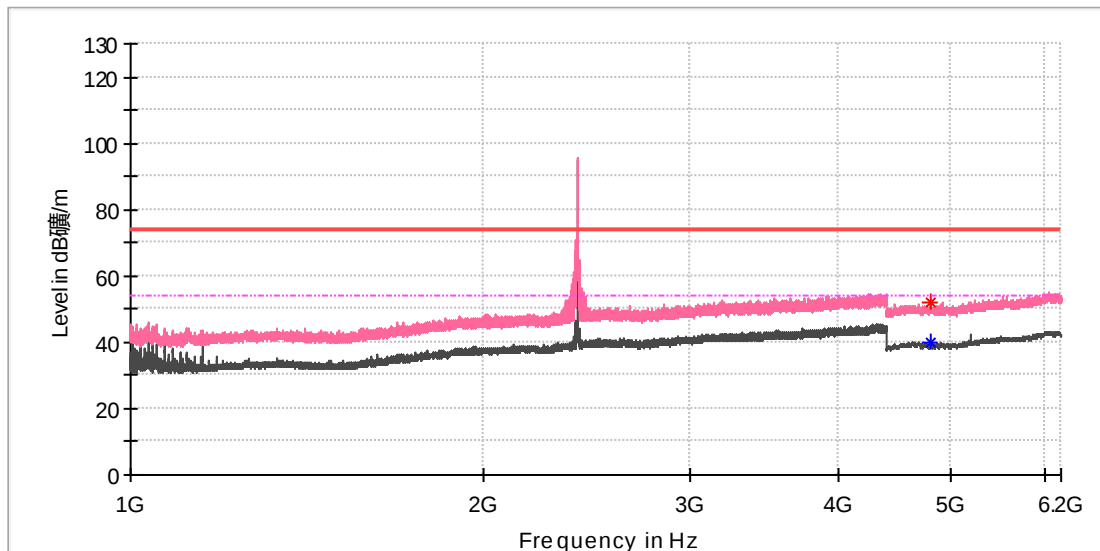
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4806.000000	---	39.31	54.00	14.69	100.0	H	97.0	11.8
4808.500000	51.26	---	74.00	22.74	100.0	H	145.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

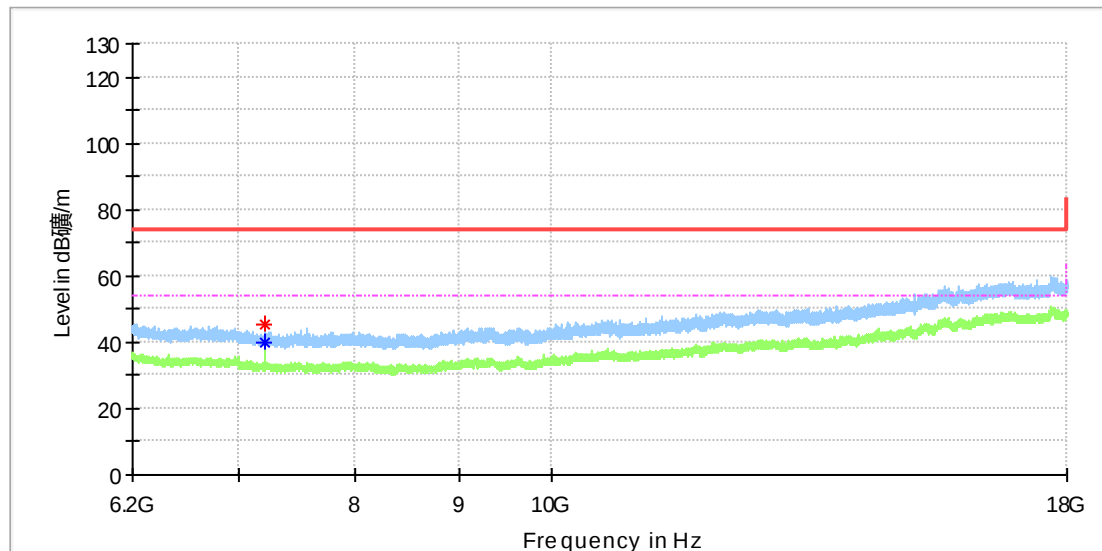
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	---	40.01	54.00	13.99	150.0	V	283.0	11.8
4809.000000	51.74	---	74.00	22.26	100.0	V	22.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

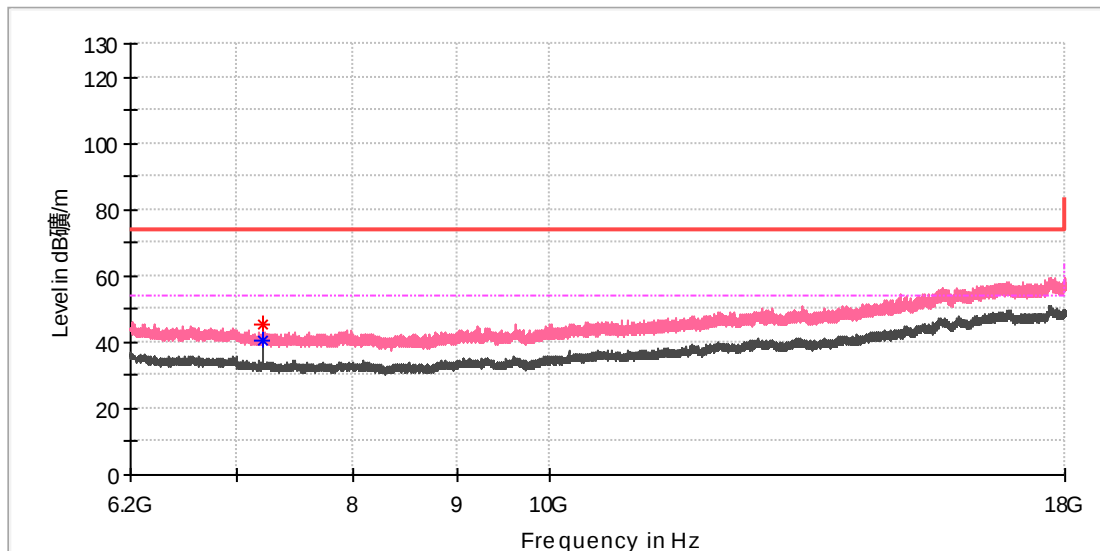
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	45.59	---	74.00	28.41	100.0	H	6.0	8.8
7206.441667	---	40.10	54.00	13.90	100.0	H	6.0	8.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

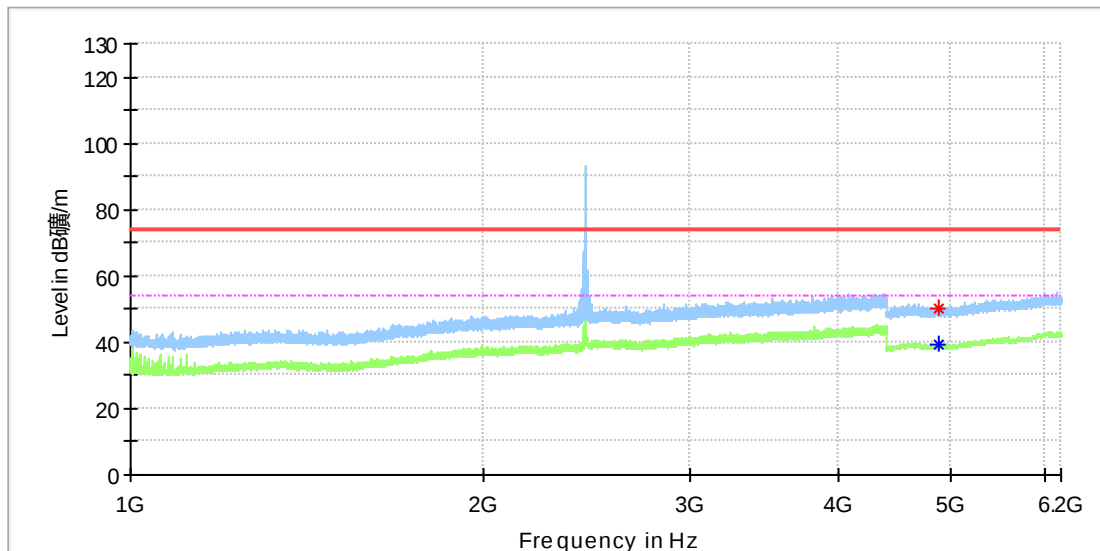
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	45.50	---	74.00	28.50	100.0	V	191.0	8.8
7206.441667	---	40.54	54.00	13.46	100.0	V	342.0	8.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

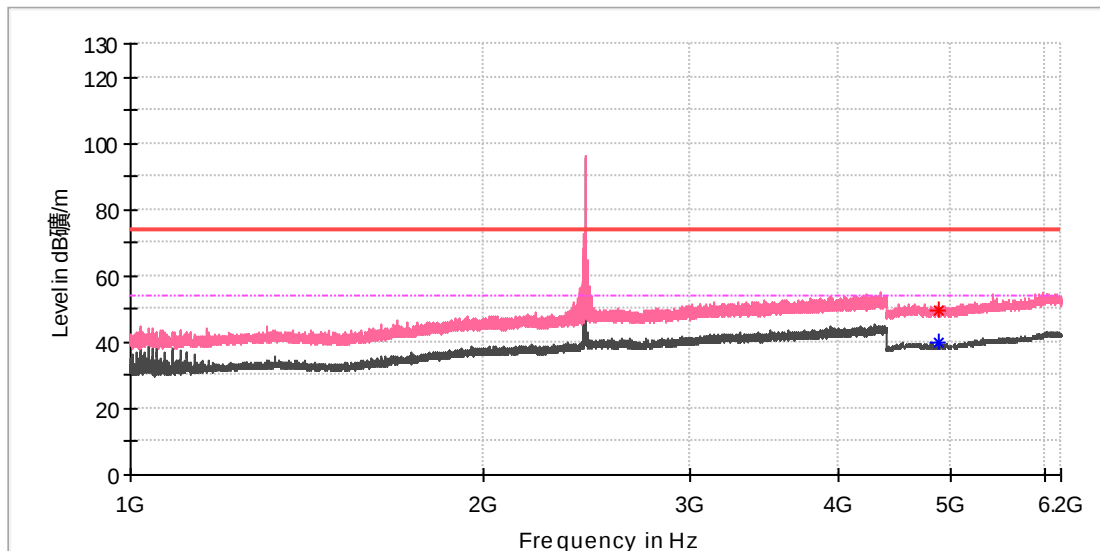
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4870.000000	---	39.16	54.00	14.84	100.0	H	309.0	11.8
4878.500000	50.07	---	74.00	23.93	100.0	H	287.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

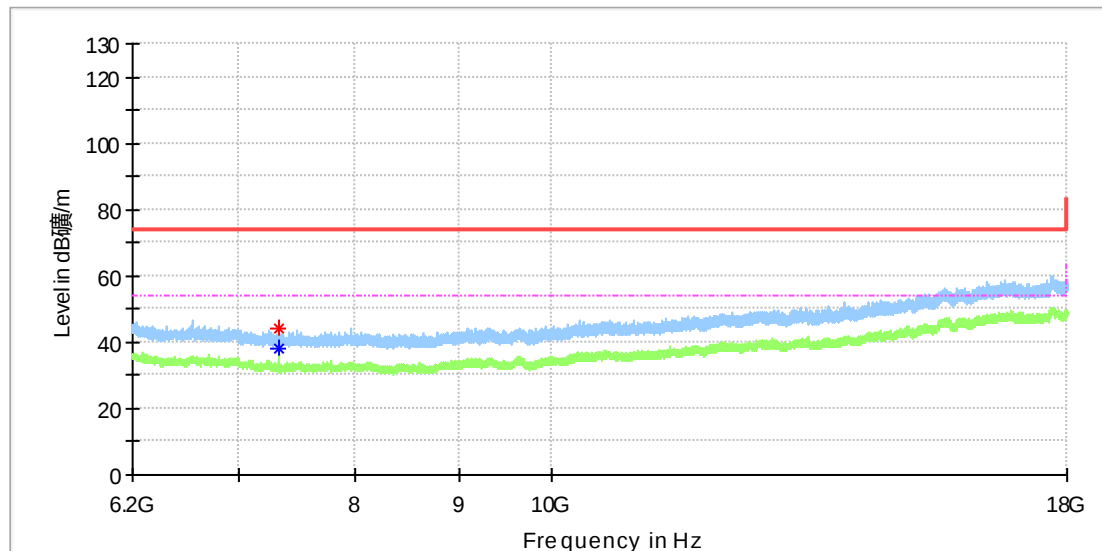
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.000000	---	40.06	54.00	13.94	100.0	V	358.0	11.8
4883.500000	49.61	---	74.00	24.39	100.0	V	323.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

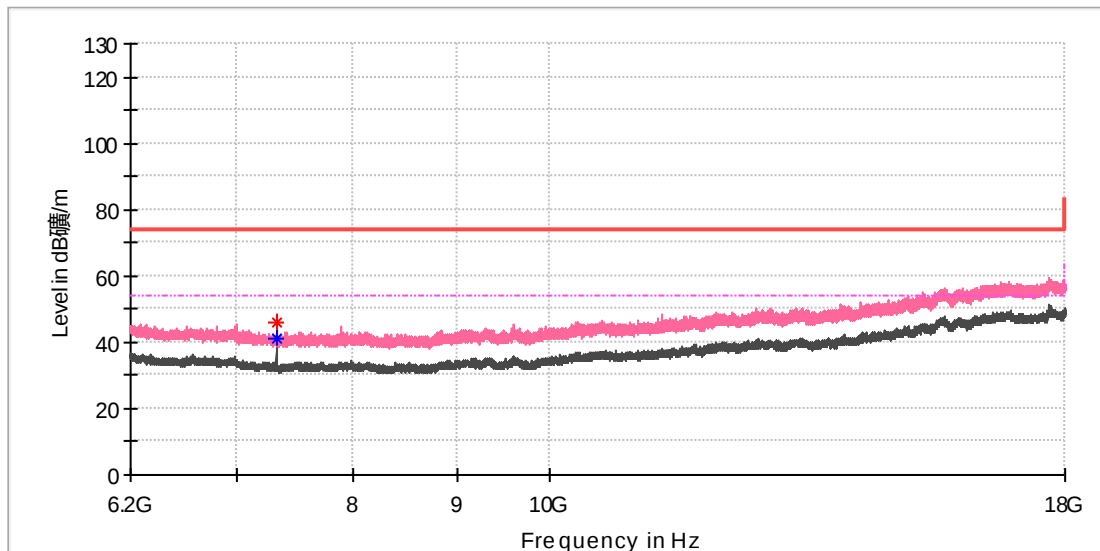
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.525000	---	37.84	54.00	16.16	100.0	H	4.0	8.2
7319.525000	44.13	---	74.00	29.87	100.0	H	4.0	8.2

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

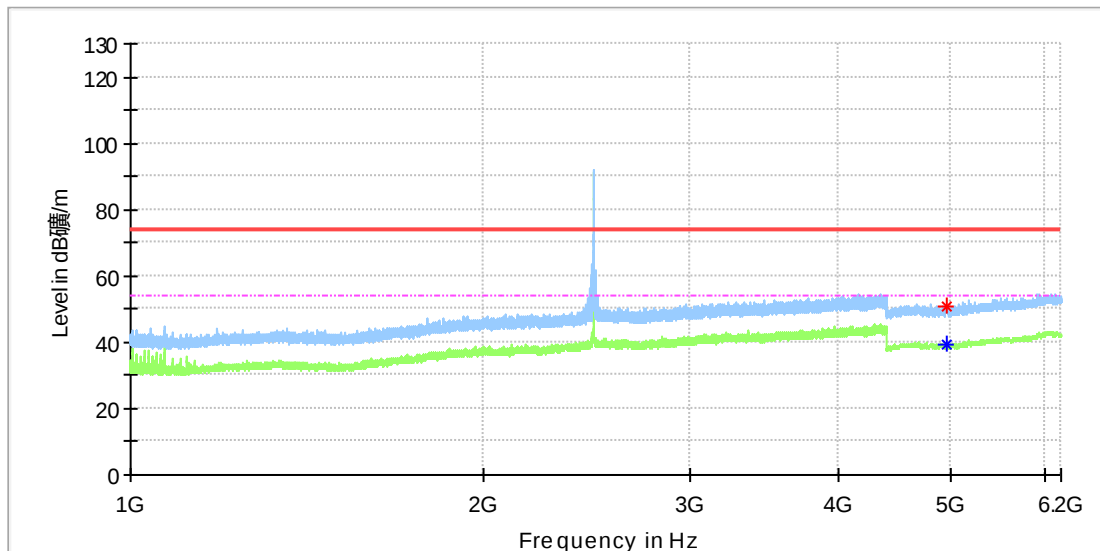
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.033333	45.88	---	74.00	28.12	100.0	V	359.0	8.2
7319.525000	---	40.97	54.00	13.03	100.0	V	352.0	8.2

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_High channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

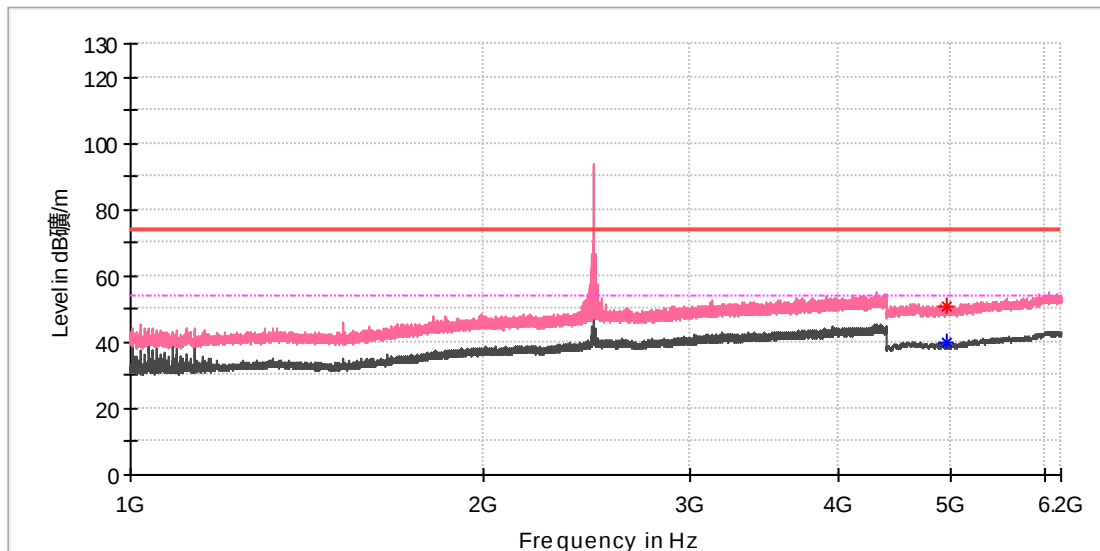
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4952.000000	50.66	---	74.00	23.34	100.0	H	295.0	11.8
4958.000000	---	39.45	54.00	14.55	100.0	H	59.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_High channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

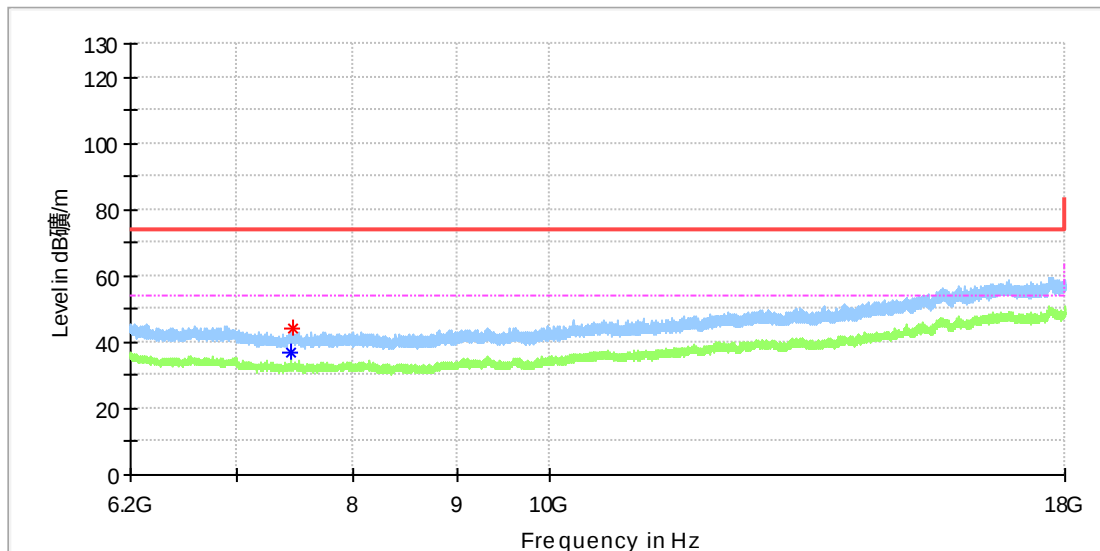
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4958.000000	51.04	---	74.00	22.96	100.0	V	74.0	11.8
4960.000000	---	40.14	54.00	13.86	100.0	V	97.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_High channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

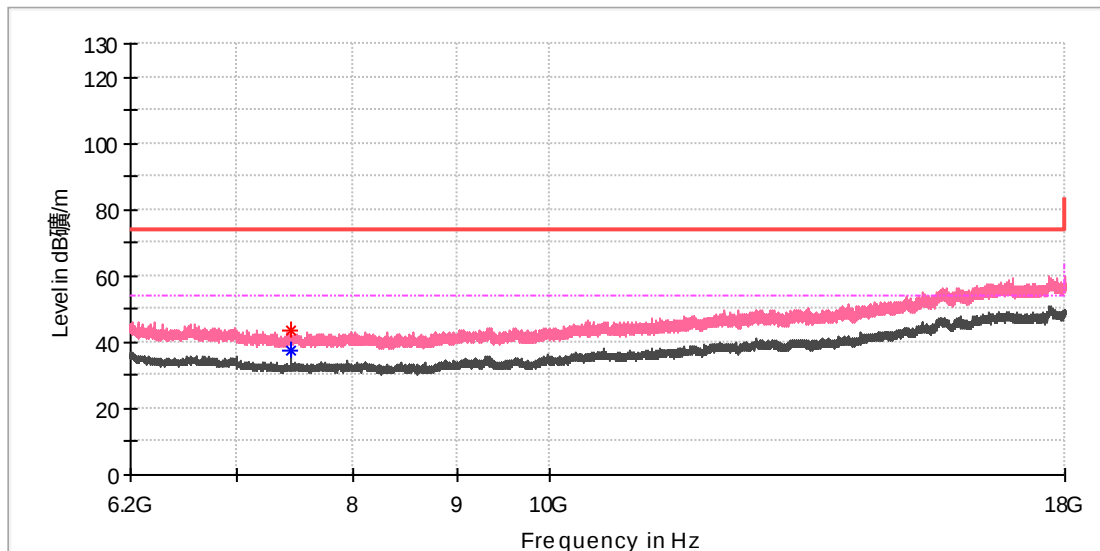
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7440.475000	---	36.92	54.00	17.08	100.0	H	213.0	8.4
7463.583333	43.92	---	74.00	30.08	100.0	H	127.0	8.6

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_High channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.000000	43.48	---	74.00	30.52	100.0	V	207.0	8.4
7439.000000	---	37.39	54.00	16.61	100.0	V	207.0	8.4

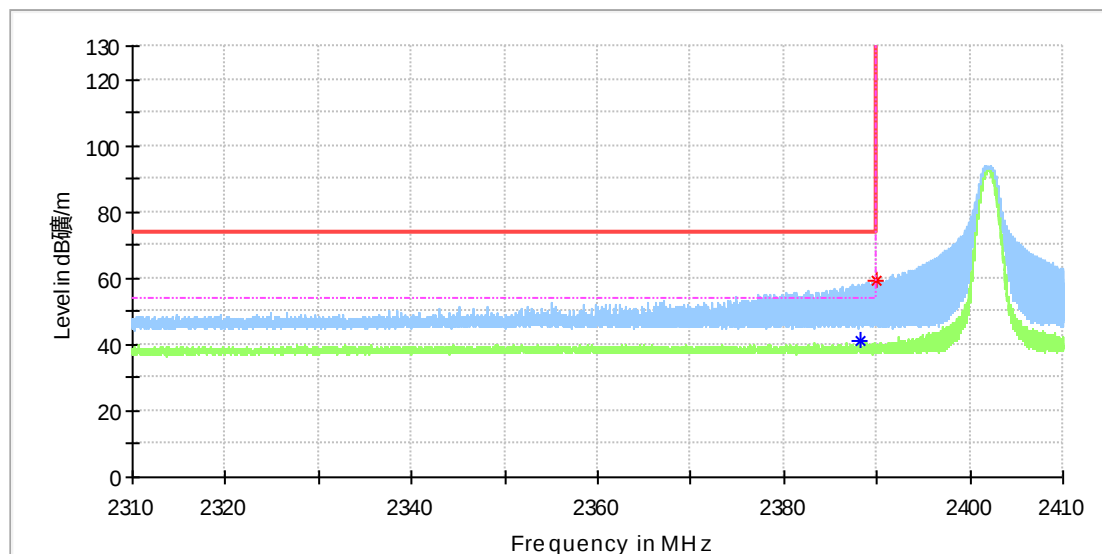
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix A.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	DJI RS 3 Mini
Model:	P20M
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168368681/A003317804-032
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

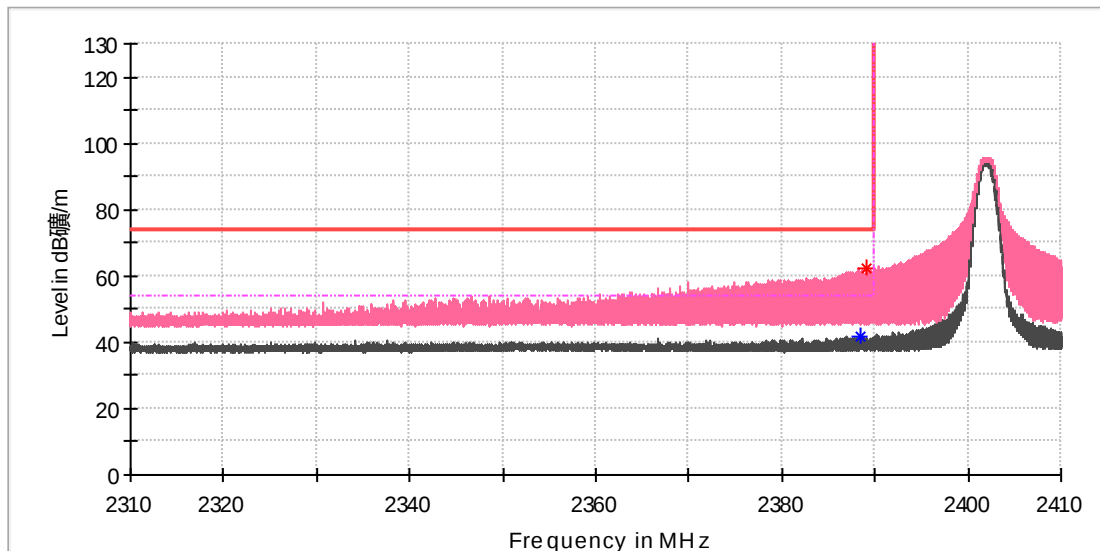
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.190000	---	40.84	54.00	13.16	100.0	H	191.0	7.0
2389.950000	59.32	---	74.00	14.68	100.0	H	180.0	7.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	DJI RS 3 Mini
Model:	P20M
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168368681/A003317804-032
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

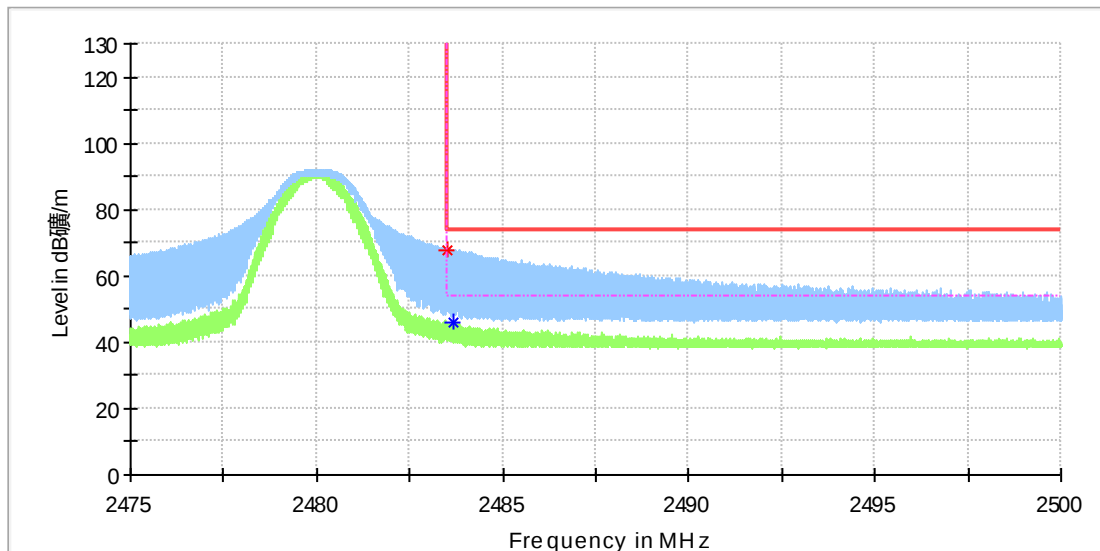
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.390000	---	41.61	54.00	12.39	100.0	V	288.0	7.0
2389.020000	62.00	---	74.00	12.00	100.0	V	300.0	7.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	DJI RS 3 Mini
Model:	P20M
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168368681/A003317804-032
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

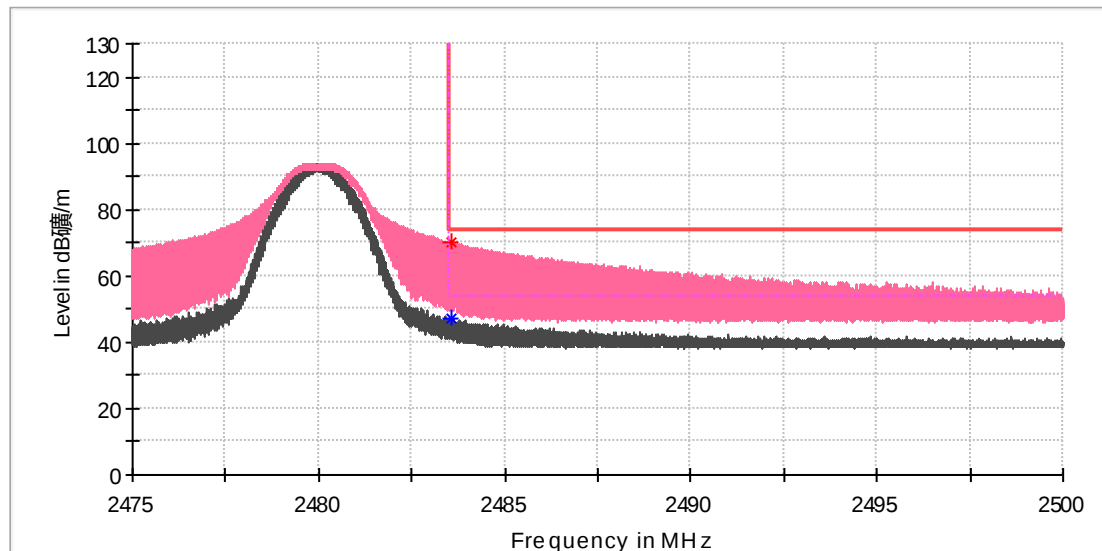
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.527500	68.02	---	74.00	5.98	100.0	H	181.0	7.4
2483.662500	---	45.66	54.00	8.34	100.0	H	181.0	7.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI RS 3 Mini
Model: P20M
Test Mode: BLE 1M_High channel
Order No/Sample No: 168368681/A003317804-032
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.543750	---	47.38	54.00	6.62	100.0	V	291.0	7.4
2483.560000	70.29	---	74.00	3.71	100.0	V	291.0	7.4

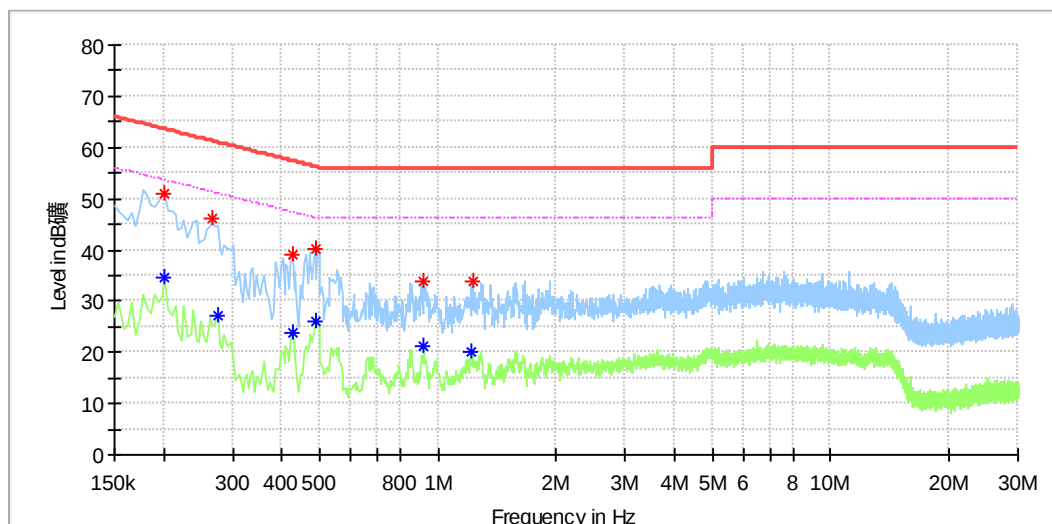
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: DJI RS 3 Mini
Order No: 168368681(P00668431) (#120)
Model: P20M
Test mode: Normal Operation
Test Voltage: 120V/60Hz
Test By:/Review By: Charlie Zha/Gary Chen
Test Standard: FCC Part 15
Tem./Hum./Pressure: 23.7°C/52.4%/101kPa
Remark: SR2

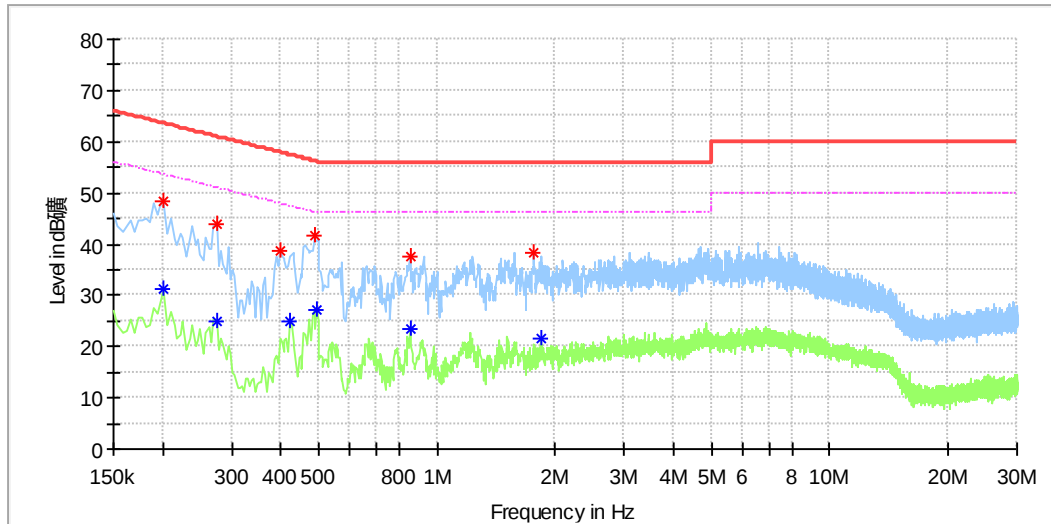


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.202000	---	34.77	53.53	18.75	L1	9.9
0.202000	51.12	---	63.53	12.41	L1	9.9
0.266000	46.10	---	61.24	15.14	L1	9.9
0.274000	---	27.13	51.00	23.87	L1	9.9
0.426000	---	23.79	47.33	23.54	L1	9.9
0.426000	39.13	---	57.33	18.20	L1	9.9
0.486000	---	26.12	46.24	20.11	L1	10.0
0.486000	40.21	---	56.24	16.02	L1	10.0
0.922000	---	21.12	46.00	24.88	L1	10.0
0.922000	33.97	---	56.00	22.03	L1	10.0
1.218000	---	20.23	46.00	25.77	L1	10.1
1.226000	34.01	---	56.00	21.99	L1	10.1

EUT Information

EUT Name: DJI RS 3 Mini
Order No: 168368681(P00668431) (#120)
Model: P20M
Test mode: Normal Operation
Test Voltage: 120V/60Hz
Test By:/Review By: Charlie Zha/Gary Chen
Test Standard: FCC Part 15
Tem./Hum./Pressure: 23.7°C/52.4%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.202000	48.38	---	63.53	15.15	N	9.8
0.202000	---	31.20	53.53	22.33	N	9.8
0.274000	43.72	---	61.00	17.27	N	9.8
0.274000	---	24.89	51.00	26.11	N	9.8
0.398000	38.76	---	57.90	19.13	N	9.8
0.422000	---	24.98	47.41	22.43	N	9.8
0.486000	41.71	---	56.24	14.53	N	9.8
0.494000	---	27.09	46.10	19.01	N	9.8
0.854000	---	23.50	46.00	22.50	N	9.8
0.854000	37.69	---	56.00	18.31	N	9.8
1.762000	38.43	---	56.00	17.57	N	9.8
1.834000	---	21.76	46.00	24.24	N	9.8